

SAFETY DATA SHEET

2,6-Dimethylphenol

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification		
Product identifier		
Product name	2,6-Dimethylphenol	
Product number	W208	
Synonyms; trade names	Dimethylphenol, 2,6- Phenol, 2,6-dimethyl- 2,6-Xylenol 1-Hydroxy-2,6-dimethylbenzene 2,6- Dimethylhydroxybenzene 1-Hydroxydimethylbenzene, 2,6-xylenol, ,	
CAS number	576-26-1	
Recommended use of the chemic	al and restrictions on use	
Application	Laboratory chemicals, Manufacture of substances.	
Uses advised against	No specific uses advised against are identified.	
Details of the supplier of the safet	y data sheet	
Supplier	Synerzine 5340 Highway 42 Ellenwood, GA 30294 (404) 524-6744 info@synerzine.com	
Contact Person	James Elliott	
Emergency telephone number		
Emergency telephone	INFOTRAC 1-800-535-5053 (Reference Contract # 102471)	
2. Hazard(s) identification		
Classification of the substance or mixture		
Physical hazards	Not Classified	
Health hazards	Acute Tox. 3 - H301 Acute Tox. 3 - H311 Skin Corr. 1B - H314 Eye Dam. 1 - H318	
Environmental hazards	Aquatic Chronic 2 - H411	
Label elements		
Hazard symbols		



Danger

Signal word

Hazard statements

H301+H311 Toxic if swallowed or in contact with skin. H314 Causes severe skin burns and eye damage. H411 Toxic to aquatic life with long lasting effects.

Precautionary statements	 P260 Do not breathe dust. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 If swallowed: Immediately call a poison center/ doctor. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P302+P352 If on skin: Wash with plenty of water. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a poison center/ doctor if you feel unwell. P321 Specific treatment (see medical advice on this label). P361+P364 Take off immediately all contaminated clothing and wash it before reuse. P363 Wash contaminated clothing before reuse. P391 Collect spillage.

Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

3. Composition/information on ing	redients
Substances	
Product name	2,6-Dimethylphenol
CAS number	576-26-1
Chemical formula	C8H10O
Composition comments	Named component present at ≤100%.
4. First-aid measures	
Description of first aid measures	
General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin Contact	It is important to remove the substance from the skin immediately. Take off immediately all contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Chemical burns must be treated by a physician.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

Most important symptoms and effects, both acute and delayed

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General information	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Severe irritation of nose and throat. Symptoms following overexposure may include the following: Corrosive to the respiratory tract.
Ingestion	May cause chemical burns in mouth, esophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.
Skin contact	Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
Indication of immediate medical a	ttention and special treatment needed
Notes for the doctor	Treat symptomatically. Keep affected person under observation.
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the s	substance or mixture
Specific hazards	This product is toxic. Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapors.
Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Regular protection may not be safe. Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.
6. Accidental release measures	
Personal precautions, protective e	equipment and emergency procedures
Personal precautions	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid inhalation of dust. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes. Avoid contact with contaminated tools and objects

Environmental precautions

Environmental precautions

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

contaminated tools and objects.

Eye/face protection

2,6-Dimethylphenol

Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. This product is corrosive. Provide adequate ventilation. Approach the spillage from upwind. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
7. Handling and storage	
Precautions for safe handling	
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. This product is toxic. This product is corrosive. Immediate first aid is imperative. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.
Conditions for safe storage, includ	ling any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Utilize retaining walls to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.
Storage class	Toxic storage.
Specific end uses(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.
8. Exposure controls/Personal pro	otection
Ingredient comments	No exposure limits known for ingredient(s).
Exposure controls	
Protective equipment	
Appropriate engineering controls	Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure.
Evalface protection	Evolution complying with an approved standard abould be warn if a rick appearant indicates are contact

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Information on basic physical and chemical properties		
Appearance	Crystalline solid.	
Color	White to Light Brown	
Odor	Medicinal Aroma Phenolic Odor	
Odor threshold	Not available.	
рН	Not available.	
Melting point	Not available.	
Initial boiling point and range	203°C/397°F	
Flash point	86°C/187°F Method: Closed cup.	
Evaporation rate	Not available.	
Upper/lower flammability or explosive limits	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)	Not available.	
Partition coefficient	Not available.	
Auto-ignition temperature	Not available.	
Decomposition Temperature	Not available.	
Viscosity	Not available.	

Not available.
Not available.
122.2 g/mol
See the other subsections of this section for further details.
Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
No potentially hazardous reactions known.
There are no known conditions that are likely to result in a hazardous situation.
No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Corrosive gases or vapors.
Toxic if swallowed.
296.0
Rat
296.0
Toxic in contact with skin.

Acute toxicity - dermal	
Summary	Toxic in contact with skin.
Acute toxicity dermal (LD50 mg/kg)	1,000.0
Species	Rabbit
ATE dermal (mg/kg)	1,000.0
Acute toxicity - inhalation Summary	Based on available data the classification criteria are not met.
Skin corrosion/irritation Summary	Causes severe skin burns and eye damage.
Serious eye damage/irritation Summary	Causes serious eye damage.
Respiratory sensitization Summary	Based on available data the classification criteria are not met.
Skin sensitization Summary	Based on available data the classification criteria are not met.
Germ cell mutagenicity Summary	Based on available data the classification criteria are not met.
Carcinogenicity Summary	Based on available data the classification criteria are not met.

Depreductive toxicity	
Reproductive toxicity Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity - sing	gle exposure
Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity - rep	eated exposure
Summary	Based on available data the classification criteria are not met.
Aspiration hazard	
Summary	Not relevant. Solid.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Corrosive to the respiratory tract. Symptoms following overexposure may include the following: Severe irritation of nose and throat.
Ingestion	May cause chemical burns in mouth, esophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.
Skin Contact	Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target Organs	No specific target organs known.
Target Organs 12. Ecological information	No specific target organs known.
12. Ecological information	No specific target organs known.
	No specific target organs known. Based on available data the classification criteria are not met.
12. Ecological information Acute aquatic toxicity	
12. Ecological information Acute aquatic toxicity Summary Acute toxicity - aquatic	Based on available data the classification criteria are not met.
12. Ecological information Acute aquatic toxicity Summary Acute toxicity - aquatic invertebrates Chronic aquatic toxicity	Based on available data the classification criteria are not met. EC₅₀, 48 hours: 11.2 mg/l, Daphnia magna
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12. Ecological information Acute aquatic toxicity Summary Acute toxicity - aquatic invertebrates Chronic aquatic toxicity Summary Persistence and degradability	Based on available data the classification criteria are not met. EC ₅₀ , 48 hours: 11.2 mg/l, Daphnia magna Toxic to aquatic life with long lasting effects.
12. Ecological information Acute aquatic toxicity Summary Acute toxicity - aquatic invertebrates Chronic aquatic toxicity Summary Persistence and degradability Persistence and degradability	Based on available data the classification criteria are not met. EC ₅₀ , 48 hours: 11.2 mg/l, Daphnia magna Toxic to aquatic life with long lasting effects.
12. Ecological information Acute aquatic toxicity Summary Acute toxicity - aquatic invertebrates Chronic aquatic toxicity Summary Persistence and degradability Persistence and degradability Bioaccumulative potential	Based on available data the classification criteria are not met. EC₅₀, 48 hours: 11.2 mg/l, Daphnia magna Toxic to aquatic life with long lasting effects. The degradability of the product is not known.
12. Ecological information Acute aquatic toxicity Summary Acute toxicity - aquatic invertebrates Chronic aquatic toxicity Summary Persistence and degradability Persistence and degradability Bioaccumulative potential Bio-Accumulative Potential	Based on available data the classification criteria are not met. ECso, 48 hours: 11.2 mg/l, Daphnia magna Toxic to aquatic life with long lasting effects. The degradability of the product is not known. No data available on bioaccumulation.
12. Ecological information Acute aquatic toxicitySummaryAcute toxicity - aquaticinvertebratesChronic aquatic toxicitySummaryPersistence and degradabilityPersistence and degradabilityBioaccumulative potentialBio-Accumulative PotentialPartition coefficient	Based on available data the classification criteria are not met. ECso, 48 hours: 11.2 mg/l, Daphnia magna Toxic to aquatic life with long lasting effects. The degradability of the product is not known. No data available on bioaccumulation.
12. Ecological informationAcute aquatic toxicity SummaryAcute toxicity - aquatic invertebratesChronic aquatic toxicity SummaryPersistence and degradability Persistence and degradabilityBioaccumulative potential Bio-Accumulative PotentialBio-Accumulative Potential Partition coefficientMobility in soil	Based on available data the classification criteria are not met. ECso, 48 hours: 11.2 mg/l, Daphnia magna Toxic to aquatic life with long lasting effects. The degradability of the product is not known. No data available on bioaccumulation. Not available.
12. Ecological informationAcute aquatic toxicity SummaryAcute toxicity - aquatic invertebratesChronic aquatic toxicity SummaryPersistence and degradabilityPersistence and degradabilityBioaccumulative potential Bio-Accumulative PotentialPartition coefficientMobility in soil Mobility	Based on available data the classification criteria are not met. ECso, 48 hours: 11.2 mg/l, Daphnia magna Toxic to aquatic life with long lasting effects. The degradability of the product is not known. No data available on bioaccumulation. Not available.
12. Ecological informationAcute aquatic toxicitySummaryAcute toxicity - aquaticinvertebratesChronic aquatic toxicitySummaryPersistence and degradabilityPioaccumulative potentialBio-Accumulative PotentialPartition coefficientMobility in soilMobilityOther adverse effects	Based on available data the classification criteria are not met. EC ₅₀ , 48 hours: 11.2 mg/l, Daphnia magna Toxic to aquatic life with long lasting effects. The degradability of the product is not known. No data available on bioaccumulation. Not available. No data available.

Waste treatment methods

General information	The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.
14. Transport information	
General	For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.
UN Number	
UN No. (TDG)	2261
UN No. (IMDG)	2261
UN No. (ICAO)	2261
UN No. (DOT)	UN2261
UN proper shipping name	
Proper shipping name (TDG)	XYLENOLS, SOLID
Proper shipping name (IMDG)	XYLENOLS, SOLID (2,6-Dimethylphenol)
Proper shipping name (ICAO)	XYLENOLS, SOLID
Proper shipping name (DOT)	XYLENOLS, SOLID
Transport hazard class(es)	
DOT hazard class	6.1
DOT hazard label	6.1
TDG class	6.1
TDG label(s)	6.1
IMDG Class	6.1
ICAO class/division	6.1

Transport labels



DOT transport labels



Packing groupTDG Packing Group//IMDG packing group//ICAO packing group//

DOT packing group

Environmental hazards

Environmentally Hazardous Substance



Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS

F-A, S-A

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Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

Regulatory References

OSHA Hazard Communication Standard 29 CFR §1910.1200

Inventories

Canada - DSL/NDSL DSL

US - TSCA Present.

16. Other information

Abbreviations and acronyms used *TDG: The transport of dangerous goods act* in the safety data sheet

	IATA: International air transport association.
	ICAO: Technical instructions for the safe transport of dangerous goods by air.
	IMDG: International maritime dangerous goods.
	CAS: Chemical abstracts service.
	ATE: Acute toxicity estimate.
	LC₅₀: Lethal concentration to 50 % of a test population.
	LD₅₀: Lethal dose to 50% of a test population (median lethal dose).
	EC₅₀: 50% of maximal effective concentration.
	PBT: Persistent, bioaccumulative and toxic substance.
	vPvB: Very persistent and very bioaccumulative.
Classification abbreviations and	Acute Tox. = Acute toxicity
acronyms	Eye Dam. = Serious eye damage
	Skin Corr. = Skin corrosion
	Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	11/8/2023
Revision	4
Supersedes date	6/7/2019
SDS No.	1078

Hazard statements in full	H301 Toxic if swallowed.
	H311 Toxic in contact with skin.
	H314 Causes severe skin burns and eye damage.
	H318 Causes serious eye damage.
	H411 Toxic to aquatic life with long lasting effects.

End of Safety Data Sheet

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.